



TechBook



Y series™

whatever the spa, this is your control system

Total Flexibility
Total Compatibility
Total Satisfaction





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Warnings



WARNINGS:

Before installing or connecting the unit, please read the following.

- * FOR UNITS FOR USE IN OTHER THAN SINGLE-FAMILY DWELLINGS, A CLEARLY LABELED EMERGENCY SWITCH SHALL BE PROVIDED AS PART OF THE INSTALLATION. THE SWITCH SHALL BE READILY ACCESSIBLE TO THE OCCUPANTS AND SHALL BE INSTALLED AT LEAST 5' (1.52 M) AWAY, ADJACENT TO, AND WITHIN SIGHT OF THE UNIT.
- * ANY DAMAGED CABLE MUST BE IMMEDIATELY REPLACED.
- * TURN POWER OFF BEFORE SERVICING OR MODIFYING ANY CABLE CONNECTIONS IN THIS UNIT.
- * TO PREVENT ELECTRIC SHOCK HAZARD AND/OR WATER DAMAGE TO THIS CONTROL, ALL UNUSED BUSHING CONDUITS MUST BE PLUGGED WITH THE ATTACHED NIPPLE.
- * THIS CONTROLLER MUST NOT BE INSTALLED IN PROXIMITY OF HIGHLY FLAMMABLE MATERIALS.
- * LOW SUPPLY VOLTAGE OR IMPROPER WIRING MAY CAUSE DAMAGE TO THIS CONTROL SYSTEM. READ AND FOLLOW ALL WIRING INSTRUCTIONS WHEN CONNECTING TO POWER SUPPLY.
- * THIS PACK CONTAINS NO USER SERVICEABLE PARTS. CONTACT AN AUTHORIZED SERVICE CENTER FOR SERVICE.
- * ALL CONNECTIONS MUST BE MADE BY A QUALIFIED ELECTRICIAN IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND ANY STATE, PROVINCE OR LOCAL ELECTRICAL CODE IN EFFECT AT THE TIME OF THE INSTALLATION.

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Introduction



Y Series

whatever the spa,
this is your control system

This product is the simplest, most flexible solution when it comes to supporting even the most complex array of spa add-ons and options.

The Y Series offers the kind of simplicity that makes for a genuine top-of-its-class product. It is the natural choice for anyone who wants an easy-to-understand multi-application solution.

With the Gecko Y Series you don't have to wonder about compatibility; instead, there's just the comforting certainty that when you invest in the Y Series, all spa configurations are supported.

What's more, it also takes into account future compatibility, so you can enjoy peace of mind knowing that you can enjoy the Y Series for years to come.



Features

The Y Series systems boast a long list of technical features. Each of them contributes to bringing the most advanced solutions available to Y Series equipped spa owners:



In.put input terminal block

In.put was designed to ease wire insertion (up to # 4 AWG) and connections. Tighter input connection reduces heat generated for increased component lifetime.



In.flo dry-fire protect

A heater safety system located on the heat.wav heater with an all-electronic dry-fire protection.



In.seal watertight protection

In.seal provides an extra level of protection against water infiltration. Connectors and power box are designed to be watertight so that no water can be in direct contact with electrical components (IPX5).



In.t.cip water temperature algorithm

In.t.cip is an intelligent water temperature refresh algorithm that calculates optimal time to start pumps and get water temperature readings. In.t.cip continuously readjusts the heater start time.



In.stik automated software upload

In.stik is a pen drive with an in.link connector very similar to a USB memory stick. It connects to the spa pack and contains data to program or configure its system. The system executes the data upload automatically.



In.link ingenious plugs and connectors

The Y Series is only compatible with the low-voltage family of in.link connectors, such as those used by keypads and similar low-voltage accessories.



In.touch you're always in touch with your relaxation

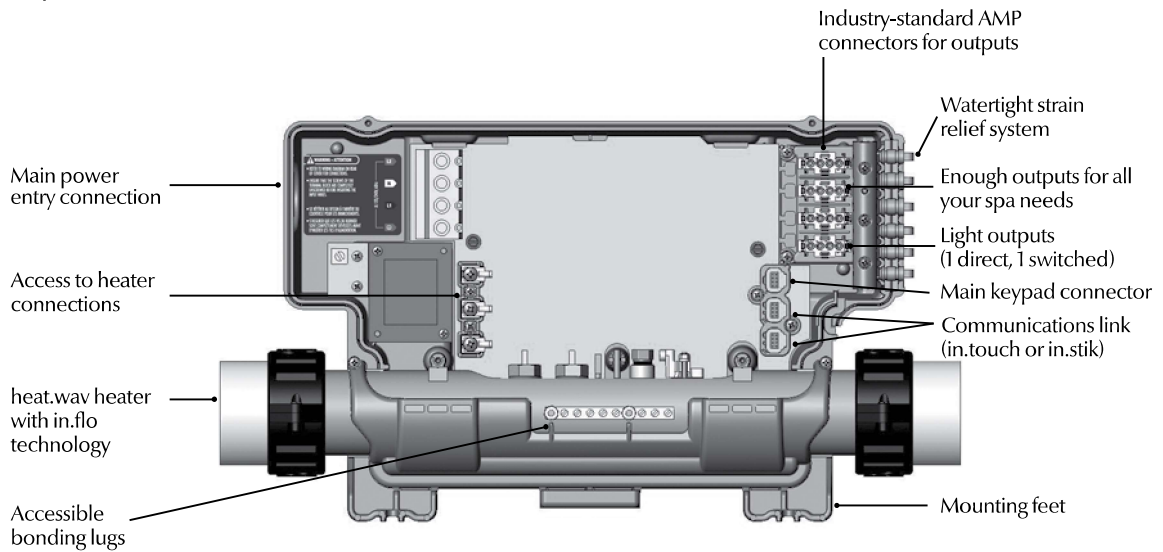
All Yseries packs support the in.touch WiFi interface, allowing you to use your favorite iOS device to communicate with your spa.

Specifications

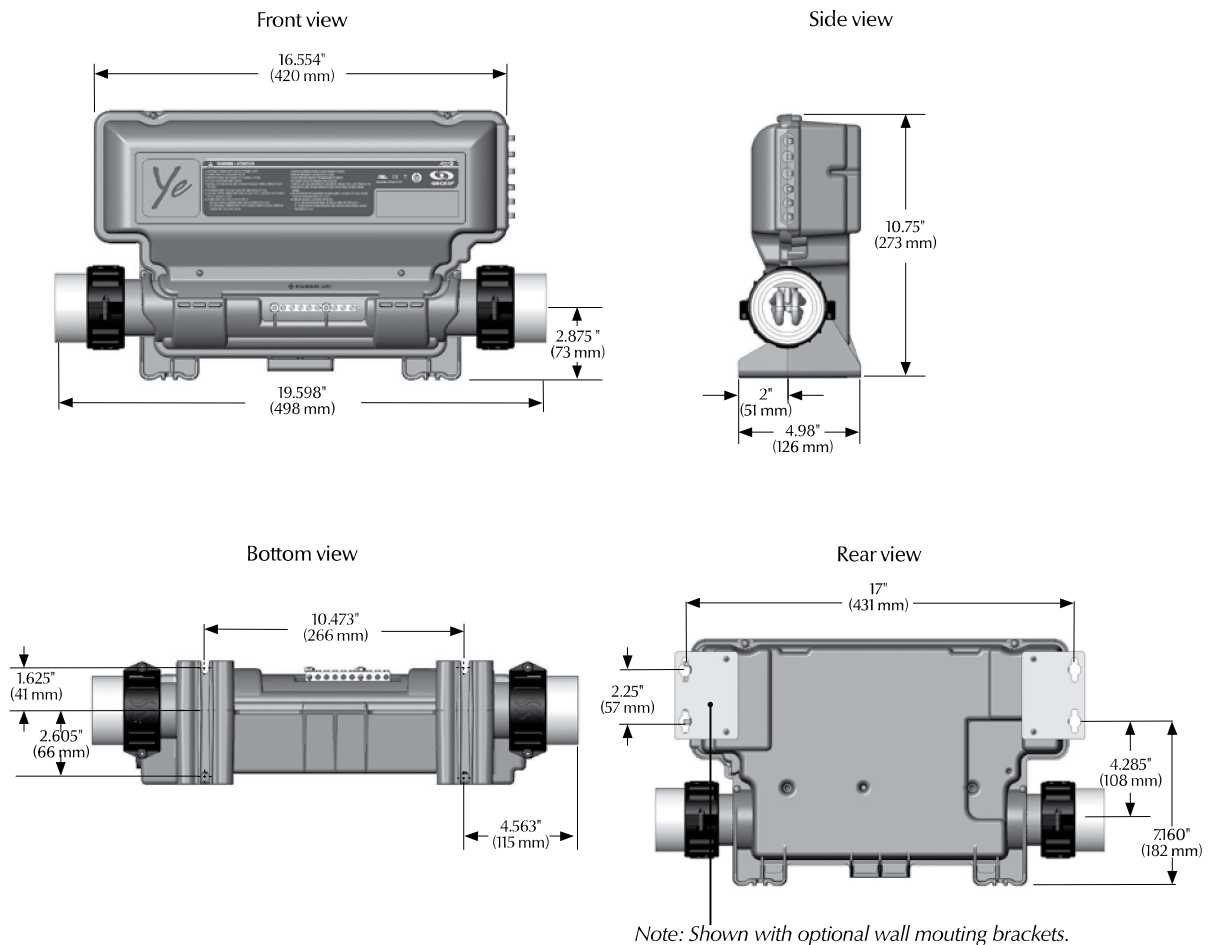
Refer to the detailed specification chart printed on page 54.



in.ye overview:

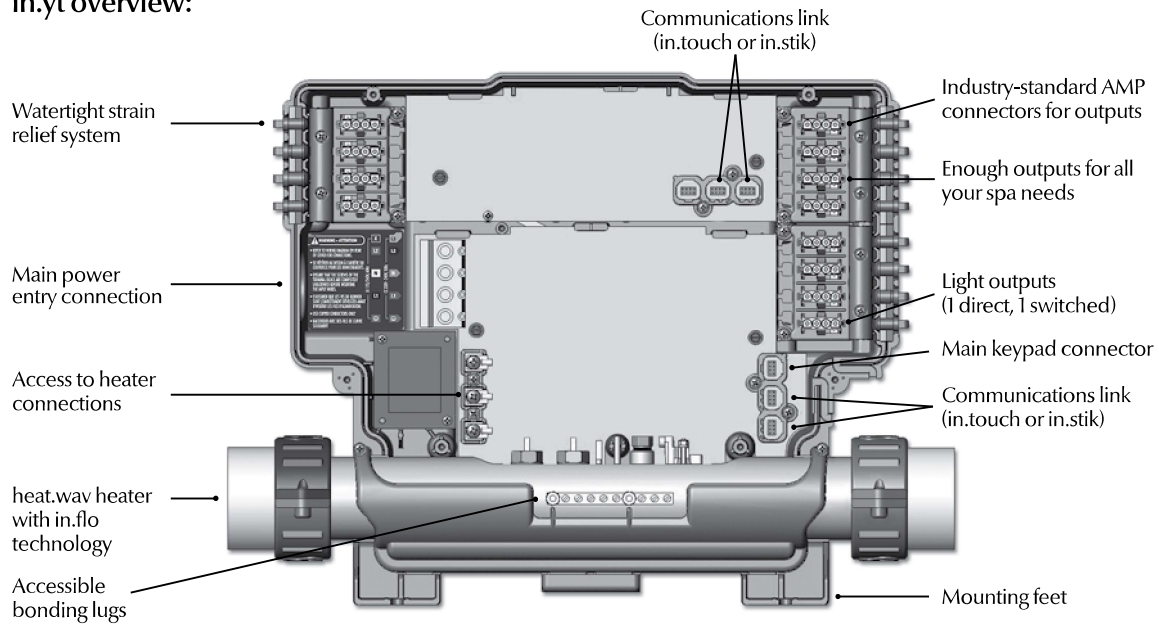


in.ye dimensions:

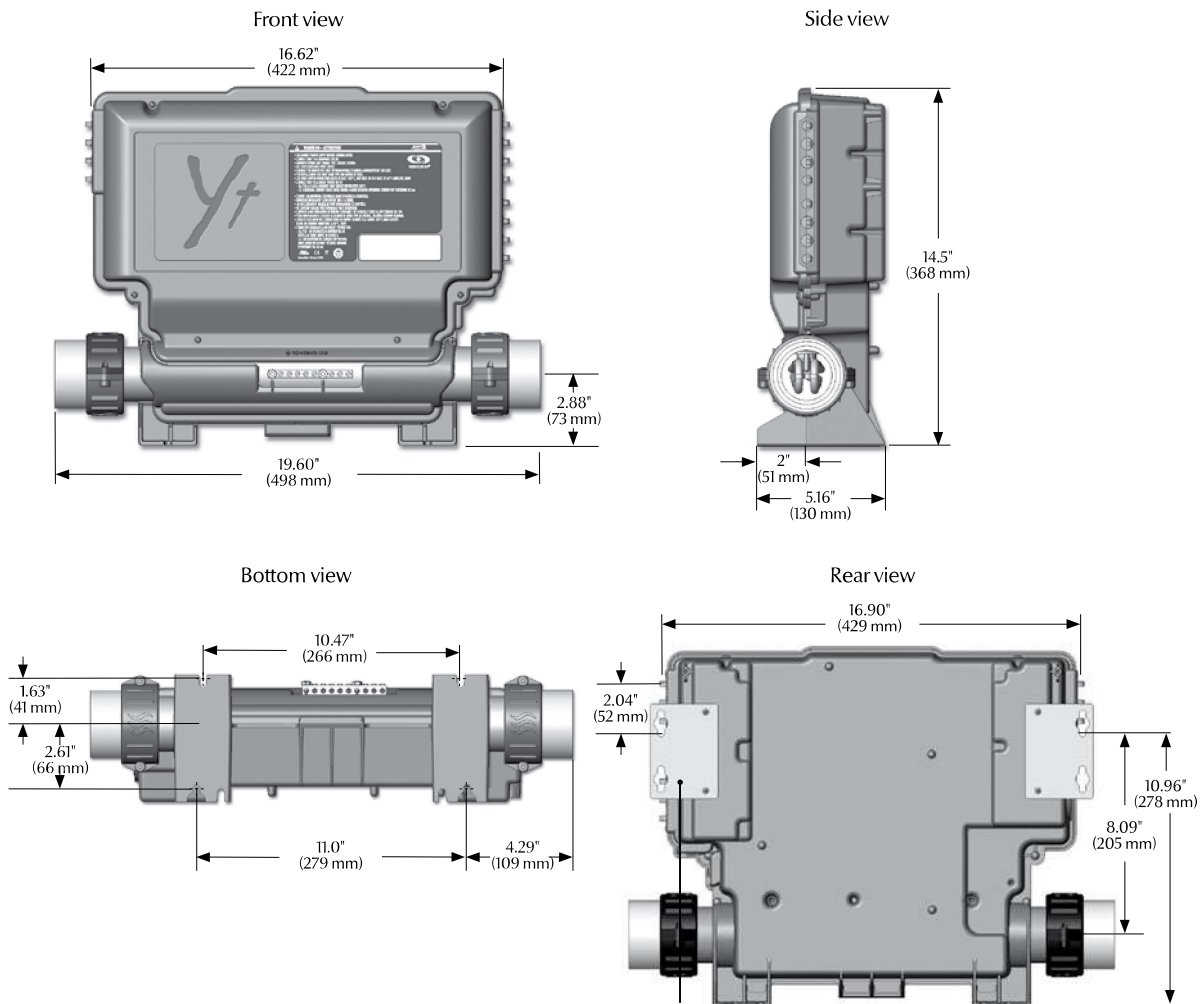




in.yt overview:



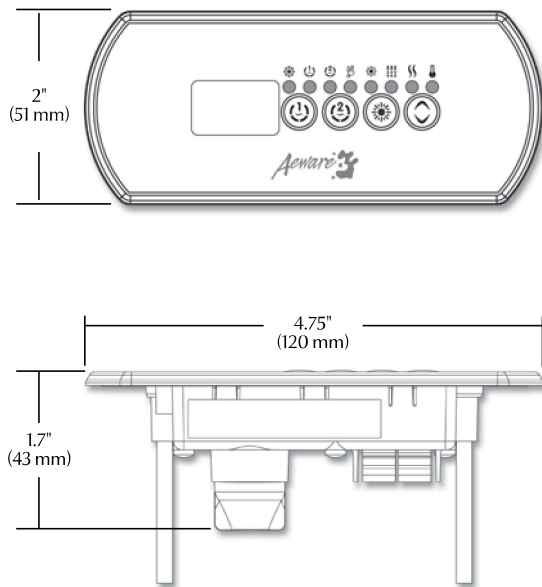
in.yt dimensions:



Note: Shown with optional wall mounting brackets.



in.k200 dimensions:



Features:

LED display
4 keys
8 light indicator
in.link connector

Mechanical Specs:

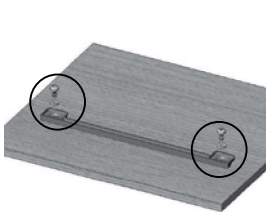
Weight: 0.9 lbs (0.41 kg)
Dimensions (W x H x D): Front panel: 4.75" x 2" x 1.7"
(120 mm x 51 mm x 43 mm)
Soft gasket

Approvals:

UV resistance (ASMTD4329)
UL, CSA, TUV and CE

Y Series installation

Floor installation procedure with optional guide plate

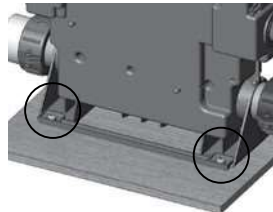


The following material is recommended:

4- #10 screws of appropriate length with round, truss or pan head.

4- washers 1/2" OD x 1/16" thickness (12 mm OD x 1.5 mm)

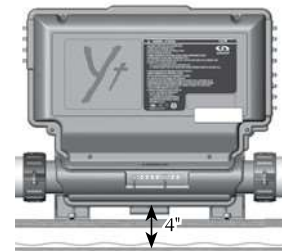
Select the most appropriate location on the floor for spa pack and firmly attach guide plate to wooden base with 2 screws backed by 2 washers.



Slide back side of the unit's feet into the guide plate. It should easily slide into place.



Now firmly attach unit to wooden base by using the remaining 2 screws backed by 2 washers to attach the front feet.



Note: The spa pack must be installed at least 4" (52 mm) above potential flood level. If floor is on ground level, pack should be raised at least 4" (52 mm).

Warning!

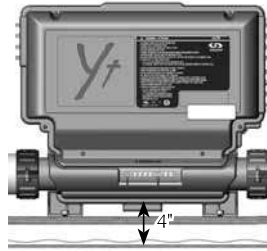
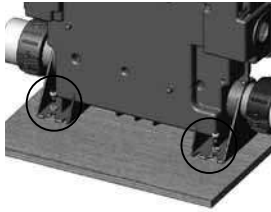
Beware the application of some products commonly used against corrosion (such as WD-40 family products) as they could damage the power box, due to a negative chemical reaction between some industrial oils and its plastic enclosure. Any other materials which may come in contact with the enclosure must be carefully evaluated under end use conditions for compatibility.

Important!

Please note that countersunk screws should not be used as they can damage the power box support.



Floor installation procedure without guide plate



The following material is recommended:

4- # 10 screws of appropriate length with round, truss or pan head.

4- washers 1/2" OD x 1/16" thickness (12 mm OD x 1.5 mm)

Now firmly attach the front feet of the pack to the wooden floor using 2 more screws backed by 2 washers.

Note: The spa pack must be installed at least 4" (52 mm) above potential flood level. If floor is on ground level, pack should be raised at least 4" (52 mm).

Important!

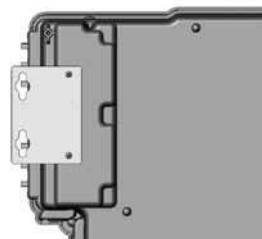
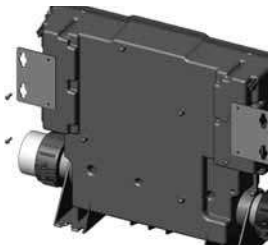
Please note that countersunk screws should not be used as they can damage the power box support.

Select the most appropriate location on the floor for the spa pack and firmly attach the 2 rear feet to the wooden base using 2 screws backed by 2 washers.

Warning!

Beware the application of some products commonly used against corrosion (such as WD-40 family products) as they could damage the power box, due to a negative chemical reaction between some industrial oils and its plastic enclosure. Any other materials which may come in contact with the enclosure must be carefully evaluated under end use conditions for compatibility.

Wall installation procedure with optional wall mounting brackets



Install mounting brackets on both sides of rear of unit, using the screws provided with the bracket.

The following material is recommended:

4- # 10 screws of appropriate length with round, truss or pan head.

4- washers 1/2" OD x 1/16" thickness (12 mm OD x 1.5 mm)

Firmly attach, one at a time, upper mounting holes on each side of the spa pack with 2 screws backed by 2 washers.

Firmly attach lower mounting holes on each side of the pack with the 2 remaining screws and 2 washers. Lower mounting holes are 2" (51mm) below upper holes.

Use 2 standard 2x4 or 2x6 wall studs, spaced on 17-inch centers to affix the spa pack.



in.k200 installation & connections

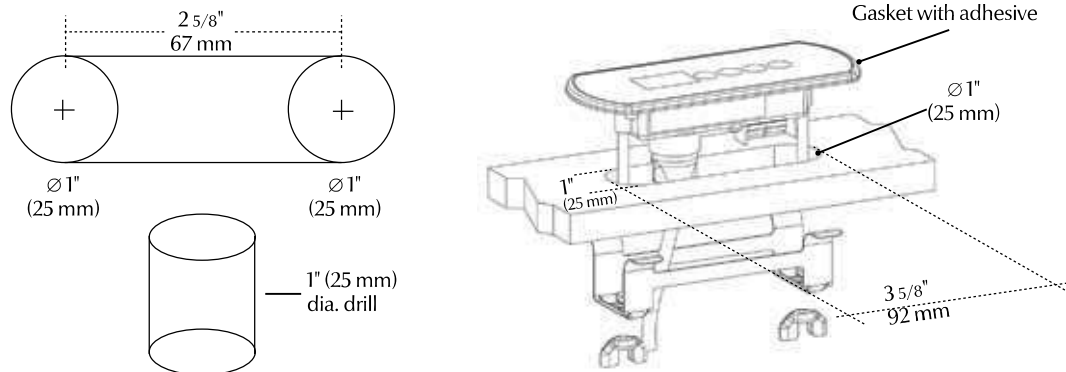
Installing the in.k200

The keypad should be installed directly onto the spa (or very close to it) so that it is easily accessible to the user.

- To install the in.k200, drill two 1" (25 mm) diameter holes at 2 5/8" (67 mm) from center to center as illustrated.
- Cut out the material between the two holes (see illustration).
- Clean the installation surface and peel the adhesive backing from the keypad.
- Insert keypad and align it correctly, then ensure it is properly glued by gently pressing evenly on the entire surface.

If the keypad is equipped with an optional holder plate, remove the two wing nuts from the back of the keypad and remove the mounting bracket.

Insert the keypad into the opening you have cut out. Put the mounting bracket and the wing nuts back on their respective bolts and fix the keypad securely in place (see illustration below).



Note: It is the installer's responsibility to ensure that no obstructions (cables, piping, etc.) are present below the deck at the drill hole location.

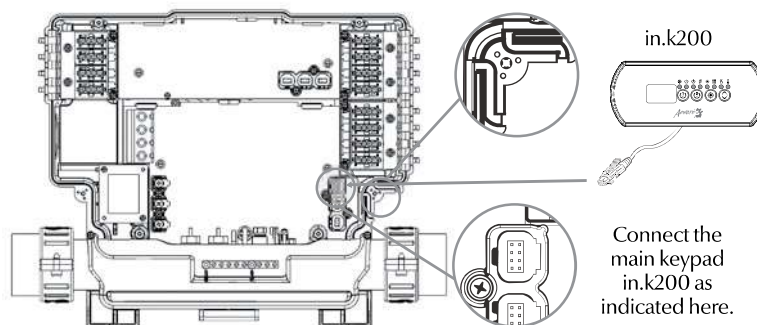
Note: If the installation location is not perfectly even (e.g. wood surface), make a silicone joint between the installation surface and the back of the unit to ensure a proper seal around it.

Connecting the main keypad to the spa pack

The in.k200 comes with a 10' (3.048 m) cable and an in.link connector.

To connect the in.k200, first remove the cover (for in.ye 4 screws and for in.yt 6 screws), then insert the in.link connector into the appropriate keypad connector (as illustrated). Route the cable through one of the molded strain relief channels on the bottom right side of the spa pack (as illustrated). Don't forget to replace the cover and all screws (do not over tighten cover screws).

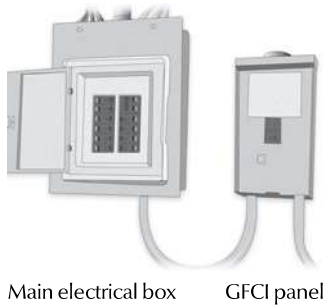
Note: always shut power down before connecting an accessory to the in.ye or in.yt.



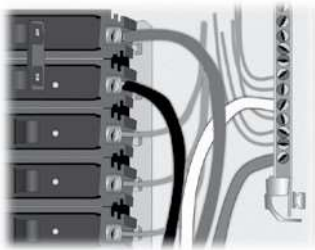


Y Series connections

Electrical wiring for North American model of the Y Series



Main electrical box GFCI panel



Warning!

For units for use in other than single-family dwellings, a clearly labeled emergency switch shall be provided as part of the installation. The switch shall be readily accessible to the occupants and shall be installed at least 5' (1.52 m) away, adjacent to, and within sight of the unit.

This product must always be connected to a circuit protected by a ground fault interrupter.

Proper wiring of the electrical service box, GFCI and in.yt terminal block is essential!

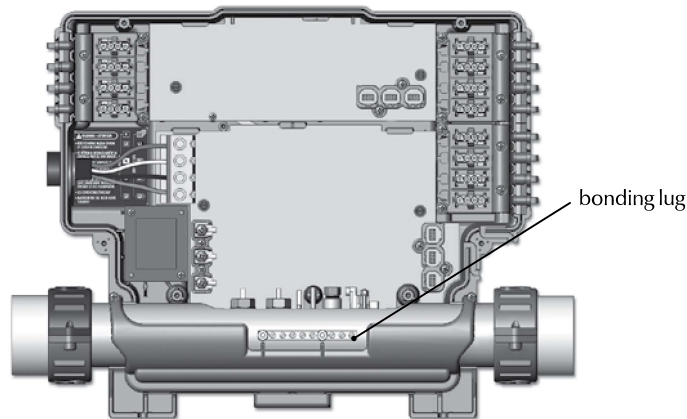
Check your electrical code for local regulations. Only copper wire should be used, never aluminum.



Disposal of the product

The appliance (or the product) must be disposed of separately in accordance with the local waste disposal legislation in force.

Electrical wiring for North American or CE model of the Y Series



To install the wiring for the Y Series spa control, you'll need a Phillips screwdriver and a flat screwdriver.

Loosen the 4 or 6 screws of the spa pack cover and remove it. Remove 5 1/2" (142 mm) of cable insulation. Strip away 1" (25 mm) of each wire insulation. Pull the cable through the cutout of the box and secure it with a strain relief (1" NPT strain relief; hole diameter: 1.335").

(For CE use an IEC certified plastic bushing that will maintain the IPX5 rating.)

Make sure that only the uncut sheathing is clamped at this opening. Make sure that the terminal block case clamps are lowered before inserting wires.

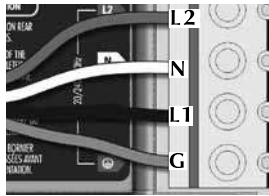
Push the color-coded wires into the terminals as indicated on the sticker and use the flat screwdriver to tighten the screws on the terminals.

After making sure wire connections are secure, push them back into the box and replace the cover. Tighten the 4 or 6 screws of the spa pack cover. Do not over tighten cover screws.

Connect the bonding conductor to the bonding lug on the front of the Y Series spa pack (a grounded electrode conductor shall be used to connect the equipment grounding conductors).



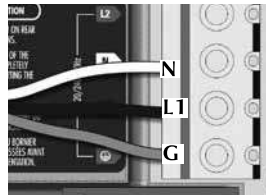
Y Series electrical wiring North American model



For 240 V (4 wires)

Correct wiring of the electrical service box, GFCI, and pack terminal block is essential.

Call an electrician if necessary.



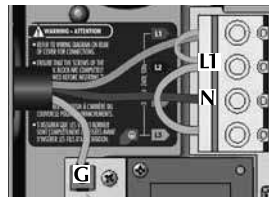
For 120 V (*3 wires)

*If connected to a 3 wire system, no 240 V component will work.

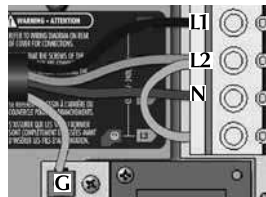
Refer to "Connections for 120 V heater" section of this manual.

Refer to heater connection section for proper connections of ORANGE and BROWN wires.

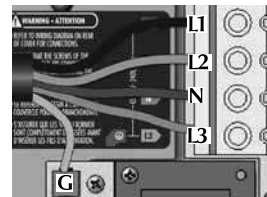
in.ye electrical wiring European model



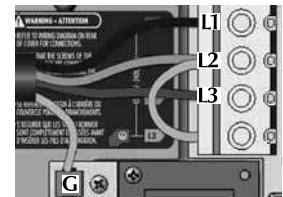
1-phase



2-phases
with single neutral



3-phases
with single neutral



3-phases Delta

In.ye.ce 230 V AC or 230/400 V AC

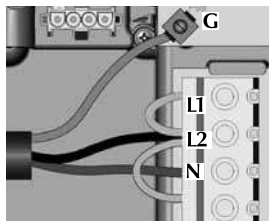
Correct wiring of the electrical service box, RCD, and pack terminal block is essential!
Call an electrician if necessary.

Refer to heater connection section for proper connections of ORANGE and BROWN wires.

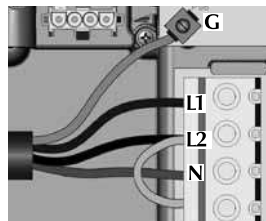
Warning!

In.ye.ce models must always be connected to a circuit protected by a Residual-Current Device (RCD) having a rated operating residual-current not exceeding 30 mA.

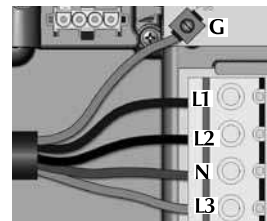
in.yt electrical wiring European model



1-phase



2-phases
with single neutral



3-phases
with single neutral

In.yt.ce 230 V AC or 230/400 V AC

Correct wiring of the electrical service box, RCD, and pack terminal block is essential!
Call an electrician if necessary.

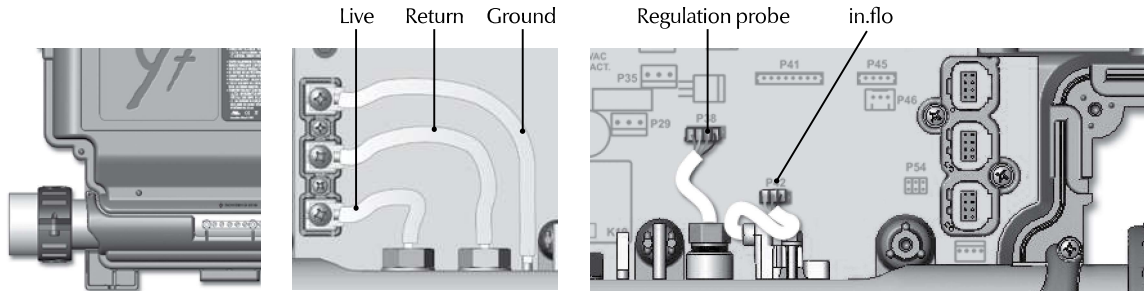
Refer to heater connection section for proper connections of ORANGE and BROWN wires.

Warning!

In.yt.ce models must always be connected to a circuit protected by a Residual-Current Device (RCD) having a rated operating residual-current not exceeding 30 mA.



Heater connections



Heat.wav heater

The Y Series systems come with a high performance heat.wav heater. With no pressure switch, it features in.flo integrated dry-fire protection.

The watertight cover protects the heater and probe connectors. Removing the cover gives access to in.flo dry-fire protection and hi-limit/regulation probe connectors, live, return, and ground cable connections.

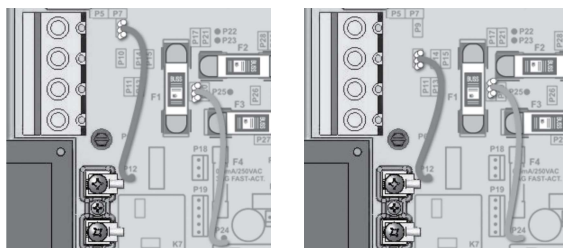
The heat.wav heater is factory configured for 240 V / 4 kW, but it can be converted to a dedicated 120 V / 1 kW by simply switching a cable connection. (120 V conversion is available on North American in.ye-3 models only).

Heat.wav specification summary:

- Supports 120 V or 240 V
- Protected by external breaker (not fused)*
- Incoloy® or Titanium (optional) heater element for greater protection against corrosion.
- Optional 5.5 kW, 240 V heater is available.

**Note: European models are 230-240 V only, and are fuse protected*

All heater connections are accessible when the cover is removed. Connections include the in.flo dry-fire protection, hi-limit/regulation probe connectors, power and ground cable connections.



Connections for all 240 V heaters (North American installations only)

BROWN wire must be correctly and completely connected between P12 and P9.

Connections for all 120 V heaters (North American installation in.ye-3 only)

BROWN wire must be correctly and completely connected between P12 and P10.

Connections for all 230 V AC heaters (CE installations only)

The heater is permanently connected to line 2 via F1. You have no jumper to manage.

Note: To convert a 240 V North American model to 120 V simply move the BROWN connection from P9 to P10.



Power-up & breaker setting



IMPORTANT!

Turn off the breaker.

Make sure all accessories are linked to the bonding connector and connected to pack.

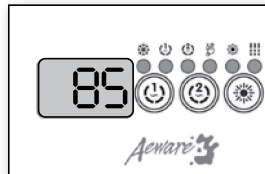
Turn on the breaker.

Boot up display sequence (Each parameter is displayed for 2 seconds)



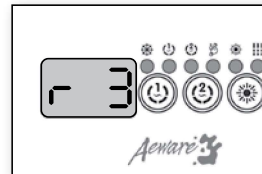
Lamp test

All the segments and LEDs light up.



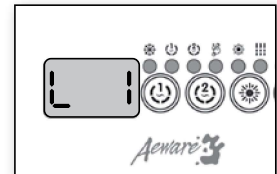
Software number

Software part number



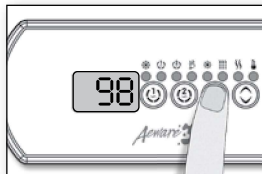
Software revision

Revision of the software



Low-level selection

Low-level selected from low-level menu



It's important to specify the current rating of the GFCI used to ensure safe and efficient current management (and reduce nuisance GFCI trippings).

Press and hold **Prog** button until you access the breaker setting menu.

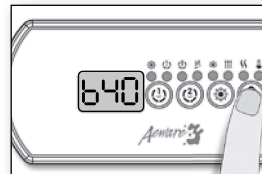
Note: if the keypad in use does not have the **Prog** key, use the **Light** key instead.



The values displayed by the system correspond to 0.8 of the maximum amperage capacity of the GFCI.

Use **Up** or **Down** button to select the desired value.

The value can be modified typically from 10 to 48 AMP for UL version, and 10 to 40 AMP for CE version.



Then press **Prog** button to set breaker rating. This table shows typical settings of b for different GFCI ratings. Select the one that matches your breaker.

GFCI	b
60 Amp	48 Amp
50 Amp	40 Amp
40 Amp	32 Amp
30 Amp	24 Amp
20 Amp	16 Amp

Note: Every OEM has its own preset configurations.

Valuable Tip

Make sure that all valves are open in the spa plumbing and that you have good water flow circulation from the primary pump into the heater.

Important: a minimum flow rate of 18 GPM is required.

Technical stuff

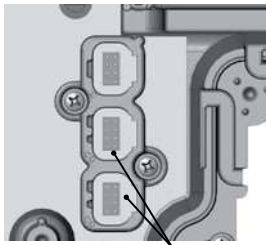
There is no mechanical blow or pressure switch in the Y Series heater. Instead Y Series systems have integrated in.flo technology. The in.flo is an all-electronic dry-fire protection device built into the heater. At power up, the in.flo detector performs a flow check through the following process:

Pump 1 or circulation pump starts for 2 minutes. The display will show "--" during the check flow process. After 2 minutes the system validates proper water flow.

In case of failure, the systems tries again. The water temperature is shown on the keypad display. Once the water has reached the set point value plus 0.8°F the heater is turned off.



Programming the Y Series



communications port

Programming the Y Series using the in.stik

This feature is very useful on production lines to configure packs and in the field for service purposes like software updates.

Follow these simple steps to upload new pre-determined low-level program configurations into the spa pack.

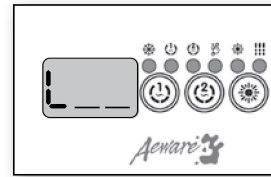
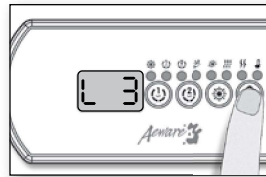
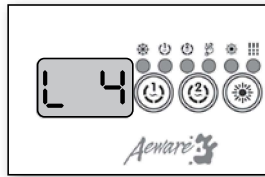
Shut electrical power off.

Remove the cover to access the low-voltage in.link connectors inside, connect the in.stik to the communications port (see figure), and then re-apply power to pack.

At power-up the spa pack will upload all the different configurations from the in.stik memory.

The unit will then enter the low-level configuration menu.

The keypad display will show L xx where "xx" represents the previous configuration number registered in the system.



Use the **Up/Down** key to choose the new desired low-level configuration number.

Press the **Prog** key to confirm the selected configuration (see configuration selection charts).

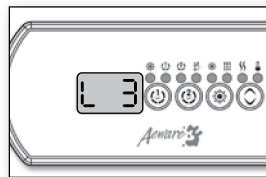
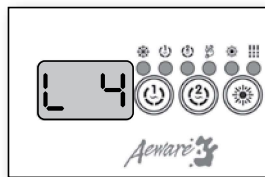
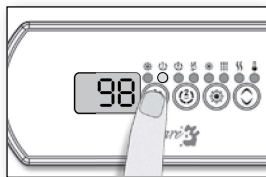
If the **Prog** key is not pressed within 25 seconds, the unit will exit this menu without changing any settings.

*Note: If the keypad in use does not have the **Prog** key, use **Light** key instead.*

If, when the system powers up, your keypad display shows the following message:

"L _ _", it means that all low-level configurations have been downloaded, but no configuration number has been chosen.

Note: When programming is finished, do not forget to turn power off, remove the in.stik, and re-install the pack's cover.



Programming the Y Series using the keypad

Although every Y Series spa pack is factory set, in certain cases when servicing or replacing a new unit in the field, it may be necessary to set a new pre-determined low-level program configuration into the spa pack.

Follow these simple steps to re-enter the low-level programming menu using the keypad:

Press and hold the **Pump 1** key for 30 seconds.

The keypad display will show L xx where "xx" represents the previous configuration number registered in the system.

Use the **Up/Down** key to choose the new desired low-level configuration number and press the **Program** key to confirm the selected configuration (refer to the configuration selection chart section in this manual).

If the **Program** key is not pressed within 25 seconds, the unit will exit this menu without changing any settings.

If at power-up of the system your keypad display shows the following message: "L _ _", it means that all low-level configurations have been downloaded, but no configuration number has been chosen.

*Note: If the keypad in use does not have the **Program** key, use the **Light** key instead.*



Low-level configuration selection charts

1- In.ye-3 with low-level 177 revision 1.

Config. #	A1	A2	A3	CP configuration	Ozone configuration	Filter Type	Heater Pump
out H	out 4	out 5	out 2				
out L	---	---	out 5				
1	O3	---	P1, 2sp	---	On during Filter cycle, with P1	Clean, P1L	P1
2	O3/CP	---	P1, 2sp	Always on	---	Purge	CP
3	O3/CP	P2, 1sp	P1, 1sp	Always on	---	Purge	CP
4	O3/CP	P2, 1sp	P1, 1sp	During filtration	---	Clean, CP	CP

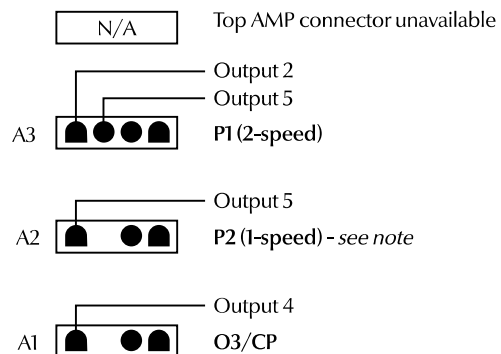
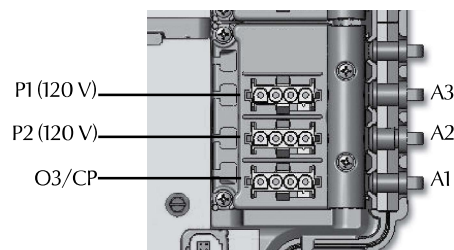
2- In.ye-5 with low-level 178 revision 2.

Config. #	A1	A2	A3	A4	FL	CP configuration	Ozone configuration	Filter Type	Heater Pump
out H	out 4	out 1	out 2	out 3	out 13				
out L	---	out 3	out 5	---	---				
1	O3	---	P1, 2sp	---	DIR	---	On during Filter cycle, with P1	Clean, P1L	P1
2	O3/CP	---	P1, 2sp	---	DIR	Always on	---	Purge	CP
3	O3	P2, 2sp	P1, 2sp	---	DIR	---	On during Filter cycle, with P1	Clean, P1L	P1
4	O3/CP	P2, 2sp	P1, 2sp	---	DIR	Always on	---	Purge	CP
5	O3/CP	P2, 1sp	P1, 2sp	P3, 1sp	DIR	During filtration	---	Clean, CP	CP

Note 1: Every OEM has its own preset configurations. The low-level configuration may differ depending on the manufacturer.

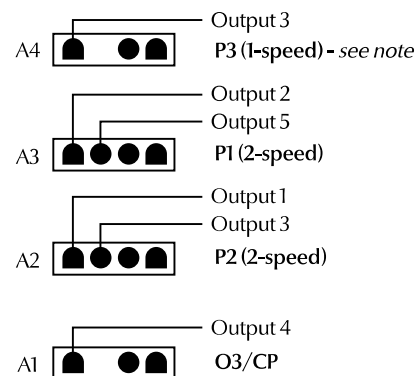
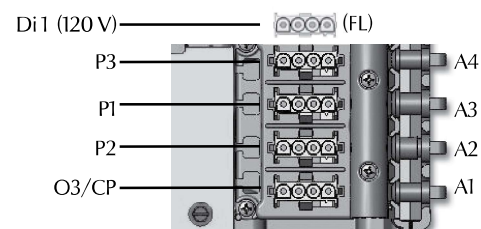
Note 2: If both CP and ozone accessories are used (controlled by same output), configure output O3 as unused.

in.ye-3



Note: If P2 is used, P1L cannot be used.

in.ye-5



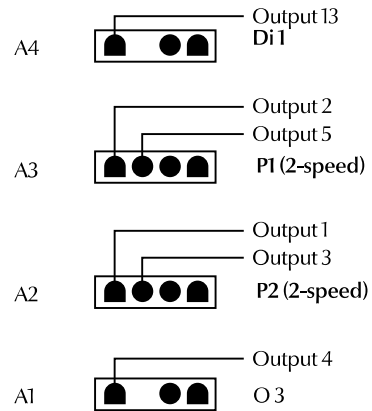
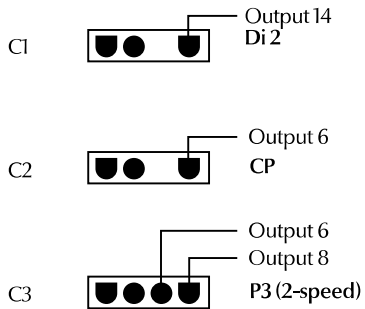
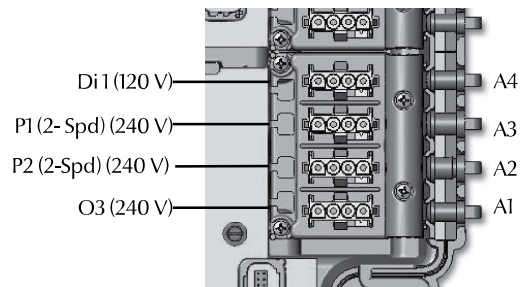
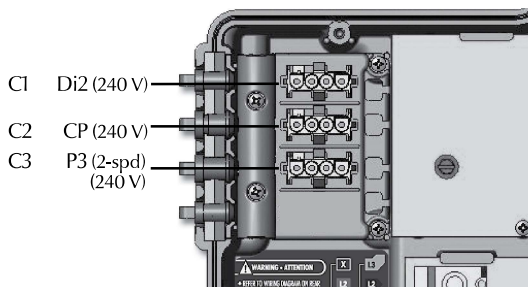
Note: If P3 is used, P2L cannot be used.



3- In.yt-7 with low-level 179 revision 1.

Config. #	A1	A2	A3	A4	C1	C2	C3	CP configuration	Ozone configuration	Filter Type	Heater Pump
out H	out 4	out 1	out 2	out 13	out 14	out 6	out 8				
out L	---	out 3	out 5	---	---	---	out 6				
1	O3	P2, 2sp	P1, 2sp	DIR	DIR	CP	P3, 1 SP	During filtration	On during Filter cycle, with CP	Clean, CP	CP
2	O3	P2, 2sp	P1, 2sp	DIR	DIR	---	P3, 2 SP	---	On during Filter cycle, with P1	Clean, P1L	P1

in.yt-7



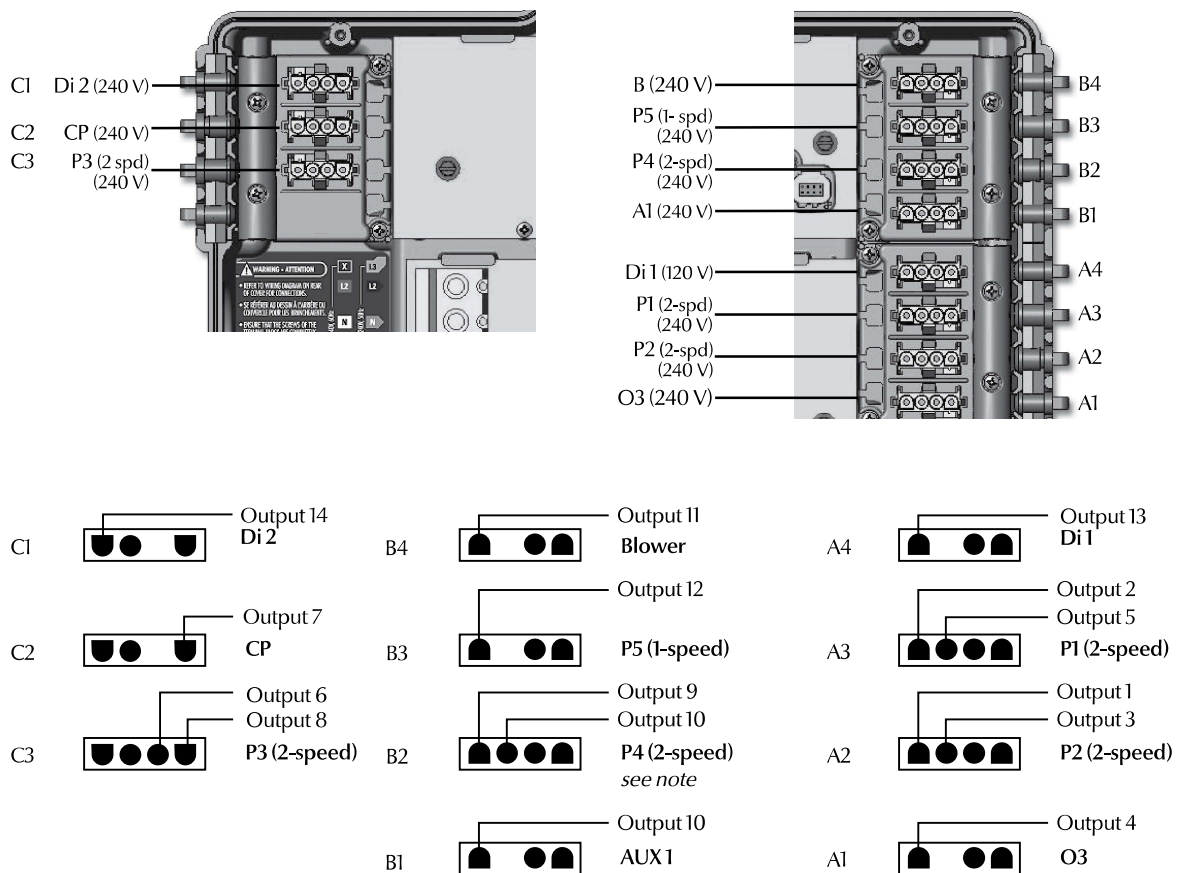
Note: If P3, 2 speed is used, CP must be on output 4 with the ozone.



4-In.yt-12 with low-level 180 revision 1.

Config. #	A1	A2	A3	A4	B1	B2	B3	B4	C1	C2	C3	CP configuration	Ozone configuration	Filter Type	Heater Pump
	out H	out 4	out 1	out 2	out 13	out 10	out 9	out 12	out 11	out 14	out 7	out 8			
	out L	---	out 3	out 5	---	---	out 10	---	---	---	---	out 6			
1	O3	P2, 2spd	P1, 2spd	DIR	A1	P4, 1spd	P5, 1spd	BL	DIR	CP	P3, 2spd	During filtration	On during Filter cycle, with CP	Clean, CP	CP
2	O3	P2, 2spd	P1, 2spd	DIR	---	P4, 2spd	P5, 1spd	BL	DIR	O3/CP	P3, 2spd	During filtration	On during Filter cycle, with CP	Clean, CP	CP

in.yt-12



Note: If P4 2 speed is used, AUX 1 can not be used.



Y Series field programming options

In the event that none of the pre-determined low-level program configurations built in the unit's system suit your spa equipment assembly, it's possible to custom configure the system by manually entering key parameter settings.

To access this menu, press and hold **Prog** (or **Light** key) for 30 seconds. Use **Up** or **Down** key to choose setting. Press **Prog** key (or **Light** key) to go to the next parameter.

Table 1

Parameter	Display	Options	Description
Output 1	1. _ _	--,1H,1L,2H,2L,3H,3L,4H,4L,P5,BL,CP,O3,L2,H, ON	Accessory connected to relay Output 1
Output 2	2. _ _	--,1H,1L,2H,2L,3H,3L,4H,4L,P5,BL,CP,O3,L2,H, ON	Accessory connected to relay Output 2
Output 3	3. _ _	--,1H,1L,2H,2L,3H,3L,4H,4L,P5,BL,CP,O3,L2,H, ON	Accessory connected to relay Output 3
Output 4	4. _ _	--,1H,1L,2H,2L,3H,3L,4H,4L,P5,BL,CP,O3,L2,H, ON	Accessory connected to relay Output 4
Output 5	5. _ _	--,1H,1L,2H,2L,3H,3L,4H,4L,P5,BL,CP,O3,L2,H, ON	Accessory connected to relay Output 5
Output 6	6. _ _	--,1H,1L,2H,2L,3H,3L,4H,4L,P5,BL,CP,O3,L2,H, ON	Accessory connected to relay Output 6
Output 7	7. _ _	--,1H,1L,2H,2L,3H,3L,4H,4L,P5,BL,CP,O3,L2,H, ON	Accessory connected to relay Output 7
Output 8	8. _ _	--,1H,1L,2H,2L,3H,3L,4H,4L,P5,BL,CP,O3,L2,H, ON	Accessory connected to relay Output 8
Output 9	9. _ _	--,1H,1L,2H,2L,3H,3L,4H,4L,P5,BL,CP,O3,L2,H, ON	Accessory connected to relay Output 9
Output 10	A. _ _	--,1H,1L,2H,2L,3H,3L,4H,4L,P5,BL,CP,O3,L2,H, ON	Accessory connected to relay Output 10
Output 11	b. _ _	--,1H,1L,2H,2L,3H,3L,4H,4L,P5,BL,CP,O3,L2,H, ON	Accessory connected to relay Output 11
Output 12	C. _ _	--,1H,1L,2H,2L,3H,3L,4H,4L,P5,BL,CP,O3,L2,H, ON	Accessory connected to relay Output 12
Output 13	d. _ _	--,CP	Accessory connected to the Direct Output 1
Output 14	E. _ _	--,CP	Accessory connected to the Direct Output 2
Heater	H. _ _	--,H	Accessory connected to the heater relay
CP usage	Cu. _	CP Standard = 0 CP Always On = 1	Usage of the circulation pump
Ozone usage	Ou. _	Ozone with filtration = 0 Ozone Always On = 1	Usage of the ozone generator
Ozone Pump	oP. _	Circulation pump = 0 Pump #1 = 1	Pump associated with the ozone generator
Ozone Type	o. _	Standard (UV) = 0 Timed (Corona) = 1	Type of ozone generator
Heater Pump	hP. _	Circulation pump = 0 Pump #1 = 1	Pump associated with the Heater
Filter Config	FL. _	Purge only = 0 With Circ. Pump = 1 With Pump 1, Low speed = 2	Filter cycle configuration
Temp. Units	Un. _	°F = 0 °C = 1	Temperature units used on display
Clock Format	CL. _	No time display = 0 AM/PM format = 1 24H format = 2	Clock display format